






Sheet 1 of 2

| | | | | |
|---|--|--|--------------------------------------|--|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. ABDT-0575/B030270 | | Application No. 10/699,041 | |
| | Applicant Deia Salah-Eldin Bayoumi, et al. | | | |
| | Filing Date October 31, 2003 | | Group 2121 | |
| | Confirmation No. 1204 | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | |
|  | 65 | Bradford, R. et al., "The Role of Process Data in Controlling and Optimizing Manufacturing Process", <i>IEEE Transactions on Manufacturing Technology</i> , June 1972 , 1(1), 5-9 | | |
|  | 66 | Long, E. et al., "A Model-Based Engineering Process for Increasing Productivity in Discrete Manufacturing", <i>Engineering of Computer-Based Systems</i> , March 24, 1997 , 197-202 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| EXAMINER  | | DATE CONSIDERED 3/14/2005 | | |



Sheet 2 of 2

Form PTO-1449 ModifiedList of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)U.S. Department of Commerce
Patent and Trademark OfficeDocket No.
ABDT-0575/B030270Application No.
10/699,041Applicant
Deia Salah-Eldin Bayoumi, et al.Filing Date
October 31, 2003Group
2121Confirmation No.
1204**U. S. PATENT DOCUMENTS**

| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
|------------------|----|-----------------|----------|----------------|-------|----------|
| <i>MM</i> | 67 | 2002/0073001 A1 | 06/13/02 | Palmer, et al. | 705 | 29 |
| <i>MM</i> | 68 | 2004/0024891 A1 | 02/05/04 | Agrusa, et al. | 709 | 230 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|------------------|-----------|--------------|------|-----------------|------------------|----|
| | | | | | YES | NO |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| EXAMINER | <i>MM</i> | | | | | |
| | | | | DATE CONSIDERED | <i>3/14/2005</i> | |



| | | | |
|---|----|--|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. ABDT-0575/B030270 | Application No. 10/699,041 |
| | | Applicant Deia Salah-Eldin Bayoumi, et al. | |
| | | Filing Date October 31, 2003 | Group Not Yet Assigned |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| <i>Ma</i> | 1 | Aldred, K., "Aerospace Manufacturer takes off wit Paperless Manufacturing System", <i>IEEE Solutions</i> , 1998, 55-57 | |
| <i>Ma</i> | 2 | Chase, N., "Paperless Manufacturing Pays Off", <i>Quality</i> , November 1998, 46-47 | |
| <i>Ma</i> | 3 | deSpautz, J., "Quantifying the Benefits of Automation", <i>ISA Transactions</i> , 1994, 33, 107-112 | |
| <i>Ma</i> | 4 | Eckerson, W., "Paperfree Factory gets Patriot Flying", <i>Network World</i> , 8(52), 2 pages | |
| <i>Ma</i> | 5 | Fouhy, k. et al., "Paperless Batch Plants become a Reality", <i>Chemical Engineering</i> , 1995, 31-33 | |
| <i>Ma</i> | 6 | Fuller, L.F. et al., "A Joint Industry university CIM Project for University Microelectronics Manufacturing", <i>IEEE</i> , 1991, 37-40 | |
| <i>Ma</i> | 7 | Gould, L., "Data Collection Leads to Paperless Manufacturing", <i>Managing Automation</i> , May 1993, 48-49 | |
| <i>Ma</i> | 8 | Jain, H.K. et al., "E-R Approach to Distributed Heterogeneous Database Systems for Integrated Manufacturing", <i>Information Resources Management Journal</i> , 1992, 3(1), 21-29 | |
| <i>Ma</i> | 9 | Johanson, D.C. et al., "Application of a B&W Developed Computer Aided Pictorial Process Planning System to CQMS for Manufacturing Process", <i>Supercollider 4</i> , 1992, 513-516 | |
| | 10 | Haverson, D.S., RS/6000 Drives Paperless Manufacturing", <i>Applied Solutions</i> , 21-22 | |
| EXAMINER <i>Ma</i> | | DATE CONSIDERED <i>3/14/2005</i> | |

| | | | |
|--|----|--|--------------------------------------|
| Form PTO-1449 Modified | | Docket No. ABDT-0575/B030270 | Application No. 10/699,041 |
| List of Patent and Publications Cited by Applicant (Use several sheets if necessary) | | Applicant Deia Salah-Eldin Bayoumi, et al. | |
| U.S. Department of Commerce Patent and Trademark Office | | Filing Date October 31, 2003 | Group Not Yet Assigned |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| <i>MA</i> | 11 | Han, M.H. et al., "Flow Control in Flexible Manufacturing: Minimization of Stockout Cost", <i>Int. J. Prod. Res.</i> , 1989, 27(4), 701-715 | |
| <i>MA</i> | 12 | Lindo, W., "Workflow Management und Optimierung der Geschäftsprozesse", <i>ZWF</i> , 1996, 91, 419-420 | |
| <i>MA</i> | 13 | Naylor, A.W. et al., "Design of Integrated Manufacturing System Control Software", <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1987, 17(6), 881-897 | |
| <i>MA</i> | 14 | Ram, S.N. et al., "Paperless Manufacturing for IC Assembly", <i>IEEE/SEMI Int'l Semiconductor Manufacturing Science Symposium</i> , 1992, 90-93 | |
| <i>MA</i> | 15 | Remson, M.G., "Paperless Manufacturing, A Challenge Now and in the Future", <i>IEEE/SEMI Int'l Semiconductor Manufacturing Science Symposium</i> , 1991, 89-94 | |
| <i>MA</i> | 16 | Saad, et al., "Effectiveness of Dynamic Rescheduling in Agent-Based Flexible Manufacturing Systems", <i>SPIE</i> , 3203, 88-99 | |
| <i>MA</i> | 17 | Vasilash, G.S., "Meeting the Future Head-on (Machinery Manufacturing)", <i>Production</i> , July 1993, 50-55 | |
| <i>MA</i> | 18 | Vide, J.J. et al., "FMS Work Flow Optimization", <i>Proceedings of the 1986 Summer Computer Simulation Conference</i> , 1986, 705-710 | |
| <i>MA</i> | 19 | von Hardenberg, P.W. et al., "Use of Integrated Knowledge-Based Systems for Helicopter Design and Manufacturing", <i>American Helicopter Society 51st Annual Forum</i> , 1995, 1-10 | |
| <i>MA</i> | 20 | Shop Solutions-"Islands of Automation have Paperless Links", <i>Manufacturing Engineering</i> , 1997, 134-136 | |
| EXAMINER <i>[Signature]</i> | | DATE CONSIDERED <i>3/14/2005</i> | |

| | | | |
|---|----|--|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. ABDT-0575/B030270 | Application No. 10/699,041 |
| | | Applicant Deia Salah-Eldin Bayoumi, et al. | |
| | | Filing Date October 31, 2003 | Group Not Yet Assigned |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| <i>mm</i> | 21 | "Revamping Manufacturing", <i>Computer-Aided Engineering</i> , 1995, 10-11 | |
| * <i>My</i> | 22 | Min-Hong, H., "Work Flow Control in Automated Manufacturing", Georgia Institute of Technology | |
| <i>ma</i> | 23 | Dewhurst, F. et al., "Towards Integrated Manufacturing Planning with Common Tool and Information Sets", <i>International Journal of Operations & Production Management</i> , 2001, 21(11), 1460-1482 | |
| <i>mm</i> | 24 | Fung, R.Y.K. et al., "Adaptive Production Scheduling of Virtual Production Systems Using Object-Oriented Petri Nets with Changeable Structure", <i>Intl. J. Prod. Res.</i> , 2002, 40(8), 1759-1785 | |
| <i>mm</i> | 25 | Greenwell, R.M. et al., "Computer-aided Acquisition of Manufacturing Information", <i>Advances in Engineering Software</i> , 1994, 20, 1-12 | |
| <i>mm</i> | 26 | Guide, Jr., V.D.R. et al., "Rough-cut Capacity Planning for Remanufacturing Firms", <i>Production Planning & Control</i> , 1997, 8(3), 237-244 | |
| <i>mm</i> | 27 | Hitomi, K., "Strategic Integrated Manufacturing Systems: The Concept and Structures", <i>International Journal of Production of Economics</i> , 1991, 25, 5-12 | |
| <i>mm</i> | 28 | Jain, H.K. et al., "E-R Approach to Distributed Heterogeneous Database Systems for Integrated Manufacturing", <i>Information Resource Management Journal</i> , 1992, 3(1), 21-29 | |
| <i>mm</i> | 29 | Jean-Luc, G., "Automated Shop Floor Control System and Method of Operation Thereof", <i>Patents Alert</i> , 5530857, page 87 | |
| <i>mm</i> | 30 | Naylor, A.W., et al., "Design of Integrated Manufacturing System Control Software", <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1987, SMC17-(6), 881-897 | |
| EXAMINER <i>mm</i> | | DATE CONSIDERED <i>3/14/2005</i> | |

* A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

| | | | |
|---|----|--|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. ABDT-0575/B030270 | Application No. 10/699,041 |
| | | Applicant Deia Salah-Eldin Bayoumi, et al. | |
| | | Filing Date October 31, 2003 | Group Not Yet Assigned |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| <i>Mu</i> | 31 | Oreshin, K.P. et al., "Integrated Multilevel System for Control of Production of the KAMAZ Work Complex", <i>Soviet Journal of Instrumentation and Control</i> , 1983, 4, 13-15 | |
| <i>Mu</i> | 32 | Ouelhadj, D. et al., "A Multi-Contract Net Protocol for Dynamic Scheduling in Flexible Manufacturing Systems (FMS)", <i>Proceedings of the IEEE International Conference on Robotics & Automation</i> , 1999, 1114-1119 | |
| <i>Mu</i> | 33 | Patkai, B., "A Cooperative Scheduling System for Paper Machinery Manufacturing", <i>IEEE</i> , 1998, 2518-2521 | |
| <i>Mu</i> | 34 | Ramaswamy, S.E. et al., "Deadlock-Free Schedules for Automated Manufacturing Workstations", <i>IEEE Transactions on Robotics and Automation</i> , 1996, 12(3), 391-400 | |
| <i>Mu</i> | 35 | Roberts, P.D. et al., "A Coordination Strategy for Integrated Operations Management and Control", <i>Abstracts</i> , 091, page 1071 | |
| <i>Mu</i> | 36 | Saad, A. et al., "Effectiveness of Dynamic Rescheduling in Agent-Based Flexible Manufacturing Systems", <i>SPIE</i> , Vol. 3203, 88-99 | |
| <i>Mu</i> | 37 | Slomp, J. et al., "A Manufacturing Planning and Control System for a Flexible Manufacturing System", <i>Robotics & Computer-Integrated Manufacturing</i> , 1993, 10(1/2), 109-114 | |
| <i>Mu</i> | 38 | Zhu, L. et al., "FMS Job-Shop Scheduling Under Disruptions with Consideration of Time and Sequence Deviation", <i>Proceedings of the IEEE International Symposium on Intelligent Control/Intelligent Systems and Semiotics</i> , 1999, 138-143 | |
| <i>Mu</i> | 39 | "Integrated Manufacturing-A Challenge for the 1990s", ESPRIT Consortium AMICE, <i>Computing and Control Engineering Journal</i> , 1991, 101-102 | |
| * <i>Mu</i> | 40 | K. Kachigan, <i>Multivariate Statistical Analysis, A Conceptual Introduction</i> , 2 nd Edition, 1991 | |
| EXAMINER <i>Michael G.</i> | | DATE CONSIDERED <i>3/14/2005</i> | |

A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

| | | | |
|---|-----------|--|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. ABDT-0575/B030270 | Application No. 10/699,041 |
| | | Applicant Deia Salah-Eldin Bayoumi, et al. | |
| | | Filing Date October 31, 2003 | Group Not Yet Assigned |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| * <i>mu</i> | 41 | David G.T. Denison, et al., <i>Bayesian Methods for Nonlinear Classification and Regression</i> , 2002, John Wiley & Sons, Inc., | |
| <i>mu</i> | 42 | Cox, D., "Analyzing Transformer Test Data", | |
| <i>mu</i> | 43 | Geromel, L. H. et al., "The Application of Intelligent Systems in Power Transformer Design", <i>Proceedings of the 2002 IEEE Canadian Conference on Electrical & Computer Engineering</i> , 2002, 285-290 | |
| <i>mu</i> | 44 | Doulamis, N.D., et al., "A Synergetic Neural Network-Genetic Scheme for Optimal Transformer Construction", <i>Integrated Computer-Aided Engineering</i> , 2002, 9, 37-56 | |
| <i>mu</i> | 45 | Saravolac, M.P., "Use of Advance Software Techniques in Transformer Design", <i>The Institution of Electrical Engineers</i> , 1998, 1-11 | |
| <i>mu</i> | 46 | Balma, P.M. et al., "Expert Systems for Power Transformer Maintenance, Diagnostics, and Design Review", <i>Proceedings of the American Power Conference, 58th Annual Meeting</i> , 1996, 2, 963-967 | |
| <i>mu</i> | | | |
| <i>mu</i> | | | |
| | | | |
| | | | |
| EXAMINER <i>mu</i> | | DATE CONSIDERED <i>3/14/2005</i> | |

A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

| | | |
|---|--|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. ABDT-0575/B030270 | Application No. 10/699,041 |
| | Applicant Deia Salah-Eldin Bayoumi, et al. | |
| | Filing Date October 31, 2003 | Group Not Yet Assigned |

U. S. PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
|------------------|----|-----------------|----------|---------------------|-------|----------|
| <i>MM</i> | 47 | 5,311,438 | 05/10/94 | Sellers, et al. | 364 | 468 |
| <i>MM</i> | 48 | 5,463,555 | 10/31/95 | Ward, et al. | 364 | 468 |
| <i>MM</i> | 49 | 5,835,764 | 11/10/98 | Platt, et al. | 395 | 671 |
| <i>MM</i> | 50 | 6,324,259 B1 | 02/05/02 | Sandoual | 705 | 7 |
| <i>MM</i> | 51 | 6,324,523 B1 | 11/27/01 | Killeen, Jr. et al. | 705 | 35 |
| <i>MM</i> | 52 | 6,477,521 B1 | 11/05/02 | Kuomura, et al. | 707 | 1 |
| <i>MM</i> | 53 | 2001/0042092 A1 | 11/15/01 | Kudo, et al. | 709 | 200 |
| <i>MM</i> | 55 | 2002/0143598 A1 | 10/03/02 | Scheer | 705 | 9 |
| <i>MM</i> | 56 | 6,633,772 | 10/14/03 | Ford, et al. | 600 | 345 |
| <i>MM</i> | 57 | 6,636,862 B2 | 10/21/03 | Lundahal | 707 | 101 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|------------------|----|-----------------|----------|---------|-------------|----|
| | | | | | YES | NO |
| <i>MM</i> | 58 | EP 0 567 291 A2 | 10/27/93 | EPO | | |
| <i>MM</i> | 59 | EP 0 721 625 B1 | 04/24/02 | EPO | | |
| <i>MM</i> | 60 | WO 95/09387 | 04/06/95 | PCT | | |
| <i>MM</i> | 61 | WO 98/57285 | 12/17/98 | PCT | | |
| <i>MM</i> | 62 | WO 99/15979 | 04/01/99 | PCT | | |
| <i>MM</i> | 63 | WO 01/02928 A2 | 01/11/01 | PCT | | |
| <i>MM</i> | 64 | WO 01/50405 A1 | 07/12/01 | PCT | | |

EXAMINER

MM

DATE CONSIDERED

3/14/2005